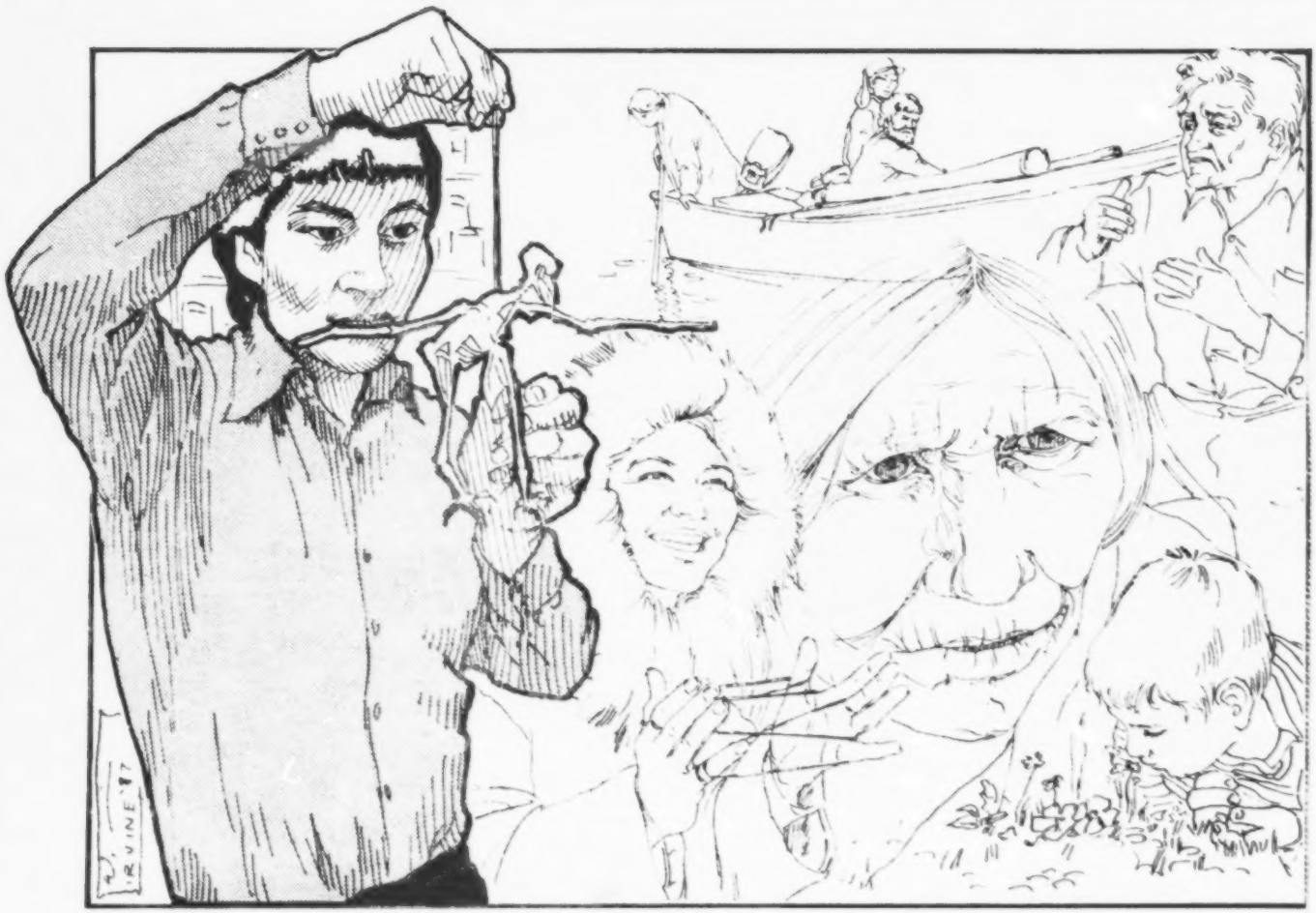
Current Research in the N.W.T.

June 1988



Find out about scientific work that is happening near you!

SCIENCE INSTITUTE OF THE NORTHWEST TERRITORIES

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How to Use This Listing

This booklet contains information about 102 research projects that are being conducted this year in the N.W.T. We are forwarding it to you now because most of the field work for these studies will be done this summer.

If there are projects listed here which interest you, we hope that you will take advantage of this advance notification and contact the researchers while they are still in the Territories. In case you miss them, we have provided their home addresses so that you can write them in the fall.

Who can benefit from using this listing?

Journalists will find it an excellent source of ideas for interesting and important stories.

Teachers can use it as a catalogue of resource people. Most researchers are happy to explain their work to students, either in writing or, when possible, in the classroom.

Bureaucrats and administrators may find that information from research is useful in formulating policies or improving procedures.

Decision makers (local and regional counsellors, members of educational authorities, MLA's and others) may find that research projects provide them with new insights into difficult issues.

Northern researchers can use the listings to keep up to date on their colleagues' work.

Everyone can enjoy the variety of subjects being studied and the interesting ideas that are being explored.

This booklet includes only projects for which Scientific Research Licences were issued by the Science Institute of the N.W.T. between January 1 and June 1, 1988. Information on archaeological research is available from the Prince of Wales Northern Heritage Centre in Yellowknife. Wildlife research is licenced by the Department of Renewable Resources, also in Yellowknife. In future editions, we intend to include information from these agencies as well.

We hope that you will find this booklet interesting and easy to use. If there are ways in which it could be improved, please let us know. For more information about the projects listed here, you may contact either Candace Savage or Susan Fleck at the Science Institute.

Baffin

The limnology of Colour Lake and the historic changes of White Glacier, Axel Heiberg Island

Adams, Peter
Dept. of Geography
Trent University
Box 4800
Peterborough, Ontario
K9J 7B8

Location: White Glacier and Colour Lake

August-September: Dr. Adams and his students will return to Axel Heiberg Island to continue their studies of White Glacier and of Colour Lake, which is naturally acidic.

Changes in sea level along the Iqaluit coastline

Andrews, John T.
Dept. of Geological Sciences
University of Colorado
Box 250
Boulder, Colorado USA
80309

Location: Iqaluit area; Gold Cove

July - August: Raoul Miller and Mark Adams, two students of Dr. Andrews, will be continuing his work to see how sea level, climate, and vegetation have changed over thousands of years. As part of their study, they will be taking samples from the bottom of lakes near Gold Cove and along the coastline.

Evolution of high latitude floras

Basinger, James F.
Dept. of Geological Sciences
University of Saskatchewan
Saskatoon, Saskatchewan
S7N 0W0

Location: Iqaluit area; Axel Heiberg and Ellesmere

June - August: Dr. Basinger is continuing to investigate and collect the fossil remains of tropical forests that once grew in the High Arctic.

Late Quaternary history of Lake Hazen Basin, Ellesmere Island

Beaudet, Hector
Department of Geography
University of Alberta
Edmonton, Alberta
T6G 2H4

Location: Craig Lake and Hazen Lake areas, Ellesmere

May - August: Dr. Beaudet and two students are studying the glaciers of the last Ice Age. They will core into the rock to take samples that will let them study climate and other conditions both while the glaciers were there and immediately afterwards.

Quaternary history of Nansen Sound

Bednarski, Jan
Department of Geography
Trent University
Peterborough, Ontario
K9J 7B8

Location: Axel Heiberg Island

June-August: Dr. Bednarski will be collecting rock samples and mapping the locations of various landforms that were made by glaciers. He will also be looking at raised beaches, all in an effort to understand how the landscape was formed.

Quaternary geology and geomorphology of the Fosheim Peninsula, Ellesmere Island.

Bell, Trevor
Department of Geography
University of Alberta
Edmonton, Alberta
T6G 2H4

Location: Fosheim Peninsula , Ellesmere Island

June-August: Trevor Bell will hike over Fosheim Peninsula collecting rock samples and mapping the locations of different kinds of rocks and landforms. He wants to know which features of the landscape were formed by glaciers and how much of the land was under sea water during glacial times.

Systematic studies of the lichen genus "Ionaspis" in North America

Brodo, Irwin
Nat. Museum of Natural Sciences
Botany Division
Ottawa, Ontario
K1A 0M8

Location: six locations across the N. W. T.

July-August: Dr. Brodo and two students (Mr. Lutzoni and Mr. Proulx) will be collecting and identifying lichens near Iqaluit, Resolute, Cambridge, Coppermine, Holman and Yellowknife. If the species are not uniformly distributed, the researchers will try to understand why.

Sedimentology and palynomorph biostratigraphy and paleoecology of Eclipse Trough

Burden, Elliott
Assistant Professor
Department of Earth Sciences
Memorial University of Nfld.
St. John's, NFLD.
A1B 3X5

Location: Iqaluit, Pond Inlet, Bylot Island

June-August: Dr. Burden is studying fossilized pollen from ancient plants in order to learn what Bylot Island was like at various times in the distant past. As part of this work, he maps the layers, or strata, of rock in the Eclipse Trough and notes the kinds of fossils that occur in each layer.

Hunting, language retention and cultural identity maintenance in Igloolik

Chartrand, Jean Philippe
236 Duke Street, #204
Hamilton, Ontario
L8P 1Y3

Location: Igloolik

January: How has hunting changed in Igloolik ? Have these changes affected the people's sense of cultural identity? What is the relationship between hunting and the quantity and quality of Inuktutit that is spoken in the community? Mr. Chartrand planned to investigate these questions.

Studies on the Arctic fossil forests

Cumbaa, Stephen L.
Nat. Museum of Natural Sciences
National Museums of Canada
Ottawa, Ontario
K1A 0M8

Location: Axel Heiberg and Ellesmere islands

June-July: As part of a study of fossil forests in the High Arctic, Dr. Cumbaa is going back to the Geodetic Hills and to Fossil Forest River to conduct surveys, make maps and collect fossils. He wants to learn more about the plants and animals of the area 70,000,000 years ago.

Sulphur bacteria and chemical analysis of two meromictic lakes

Dickman, Mike
Department of Bio.Sciences
Brock University (Glenridge)
St. Catherines, Ontario
L2S 3A1

Location: Cornwallis Island

August: A "meromictic" lake is one in which the water does not circulate in the usual, seasonal way, so that the bottom layer remains without oxygen. Dr. Dickman is interested in the photosynthetic sulphur bacteria which live in the bottom, salty layer of two such lakes on Cornwallis Island.

Silurian sedimentary rocks and fossils on High Arctic islands

Dixon, O.A.
Department of Geology
University of Ottawa
61 Louis-Pasteur
Ottawa, Ontario
K1N 6N5

Location: Ellesmere, Dundas and Cornwallis islands

April-July: Dr. Dixon and his coworkers will work on three High Arctic Islands , collecting information and samples as part of a study of rocks and fossils. On the basis of what they learn, they will try to tell what the islands were like in earlier times.

Sounds generated by ice cracking

Farmer, David
Institute of Ocean Sciences
Box 6000
9860 West Saanich Road
V8L 4B2

Location: Barrow Strait

April: David Farmer wants to learn to interpret the sound that ice makes when it cracks. To do this, he will collect data with instruments known as "hydrophones", which permit him to listen to sounds transmitted through water.

Ward Hunt Island: ice stress and meteorology

Fiennes, Ranulph
16 Palace Street
London, England SW1E

Location: Ward Hunt Islant, Resolute Bay

February-May: Sir Ranulph Fiennes recorded ice stress on the ice shelf of Ward Hunt Island and collected meteorological data.

Recovery of Arctic vegetation from disturbance by human occupation

Forbes, Bruce C.
Department of Geography
McGill University
805 Sherbrooke St. West
Montreal, Quebec
H3A 2K6

Location: Clyde River area

June-September: Bruce Forbes is looking at how quickly plants are invading the old settlement of Clyde River where the ground was cleared for buildings and roads.

Ecology of subarctic ground beetles of paleoenvironmental significance in northern Manitoba.

Garry, Clarke E.
Department of Biology
U. of Wisconsin-River Falls,
River Falls, WI
54022 USA

Location: Baralzon Lake Region, N.W.T.

June-July: Dr. Baralzon is studying the environment in northern Manitoba thousands of years ago. As part of his investigations, he needs to learn more about the habitats of northern ground beetles. Which kinds live in the woodlands and which on the tundra? He hopes to find out this summer.

Canada '88 - Terra di Ellesmere

Giardini, Franco
Via Avgliana 72
Leumann (To),
Italy 10096

Location: Grise Fiord, Cobourg Island , Jones Sound

August-September: Together with five other researchers, Mr. Giardini will study aquatic molluscs (shellfish) and collect mosses and lichens for the University of Turin in Italy. The researchers will also measure changes in the pressure inside their eyes at different times of day.

Glacial sediment deposits in Expedition Fiord.

Gilbert, Robert
Department of Geography
Queen's University
Kingston, Ontario
K7L 3N6

Location: Axel Heiberg Island

August-September: Dr. Gilbert is looking at how the ocean floor is changed by sediments deposited from the Thompson Glacier. In this study, he and a graduate student will map the depth of the fiord, collect water samples for later analysis in the lab, and collect cores of soil from the ocean floor.

Marine sedimentation in the Pangnirtung Fiord, N.W.T.

Glew, John R.
Department of Geography
Queen's University
Kingston, Ontario
K7N 3N6

Location: Pangnirtung Fiord

July-August: This is the last year that John Glew will be examining the bottom of Pangnirtung Fiord. He has been sampling and taking measurements of the seawater, seafloor soil, the animals and plants that dwell on the seafloor, and the effects of ice on intertidal shores.

Joint Services Expedition to Borup Fiord, Ellesmere Island

Hankinson, K. W.
RAF Lyneham
Chippenham, Wiltshire, England
LXX SQN

Location: Resolute, Borup Fiord on Ellesmere Island

May-September: As part of the Joint Services Expedition, Flt. Lt. Hankinson and his party intend to study snow buntings, wading birds, Arctic hares, insects, Arctic char, mosses, igneous rocks, archaeological sites, weather, and food-chain dynamics.

Eco-physiology of several pan-Arctic plant species.

Henry, Gregory H.R.
Department of Geography
3-32 HM Tory Building
University of Alberta
Edmonton, Alberta
T6G 2H4

Location: Ellesmere Island

June-August: Some Arctic plants are found in almost every type of habitat, from wet meadows to dry gravel areas. Dr. Henry, Dr. Zilder and several students are looking at these plants to find out what makes it possible for them to be so adaptable.

Structure and use of caribou antlers

Herzog, Marianne
3870 rue St. Hubert, #14
Montreal, Quebec
H2L 4A5

Location: Igloolik

May-June: Ms. Herzog is studying the structure of caribou antlers and the way they vary with the sex and age of the animals. She will also investigate the use people make of the antlers and will collect several pairs for chemical analysis.

Pack ice pressure on Ward Hunt ice shelf

Holdsworth, Gerald
Arctic Institute of N. America
University of Calgary
2500 University Drive
Calgary, Alberta
T2N 1N4

Location: Ward Hunt island

May-June: With his coworkers, Mr. Holdworth will measure the extreme pressure exerted by pack ice against the Ward Hunt Ice Shelf.

Trophic relationships and energetics of Arctic Cod (Boreagadus saida)

Hop, Haaken
Department of Zoology
CW-312 Biological Science Bldg.
University of Alberta
Edmonton, Alberta
T6G 2E9

Location: Resolute Bay, Lancaster Sound area

June-September: Haaken Hop is interested in the "feeding ecology" of Arctic cod -- what they eat and what eats them. He will make observations in Lancaster Sound and also capture 100 live cod for studies at the Marine Sciences Research Laboratory at Memorial University in St. John's, Nfld.

Mesoscale climates and paleoclimates in Baffin Island

Jacobs, John D.
Department of Geography
University of Windsor
Windsor, Ontario
N9B 3P4

Location: Iqaluit, Amadjuak Lake, Rimrock Lake

June-August: Dr. Jacobs is returning with his students to continue his investigations of changes in climate and environment over the last 8,000 years.

Development of High Arctic push moraines

King, Lorenz
Geographisches Institute
Justus Liebig-Universitat
Neues Schloss
Giessen, West Germany
D-3600

Location: Axel Heiberg, Ellesmere, Ward Hunt islands

June-July: Dr. King is interested in the formation of moraines -- accumulations of earth and stones that are carried by glaciers and finally deposited by them.

Paleoenvironment of Truelove Lowland area, Devon Island

King, Roger H.
Department of Geography
Social Science Centre
University of Western Ontario
London, Ontario
N6A 5C2

Location: Truelove Lowland, Devon Island

June-August: This is the fourth year that Dr. King and his students (see listings under Schliebli, Smith, Somr) will be working in the Truelove Lowland area of Devon Island. They are extracting columns of soil and rock to study climatic change over the last several thousand years.

Behaviour and physiological adaptations to cold in a High Arctic moth

Kukal, Olga
Dept. of Biological Sciences
University of Notre Dame
Notre Dame, Indiana
46556 U. S.A.

Location: Ellesmere Island

June: Ms. Kukal wants to know how it is possible for a certain kind of moth to survive in the High Arctic environment. She already knows, for example, that it is able to produce its own antifreeze.

Rocks and fossils of the central Arctic islands

Lenz, Alfred C.
Department of Geology
Faculty of Science
University of Western Ontario
London, Ontario
N6A 5B7

Location: Cornwallis and Bathurst islands

June: Dr. Lenz is continuing his study of rocks and fossils in the N.W.T. This summer he will be traversing northeastern Cornwallis Island and central Bathurst Island.

Development of skinflows, Fosheim Peninsula, Ellesmere Island.

Lewkowicz, Antoni G.
Department of Geography
Erindale Campus
University of Toronto
Mississauga, Ontario
L5L 1C6

Location: Fosheim Peninsula

July: Over time, hillsides slowly collapse for various reasons. Dr. Lewkowicz and his assistants are looking for a certain type of slope failure called a "skinflow." They want to map the locations of skinflows in this area and will also measure them and determine their age by extracting soil samples.

Verification of North Baffin linguistic forms

Lipscomb, David
Apt. 7
3456 Aylmer St.
Montreal, Que.
H2X 2B6

Location: Pond Inlet

June: Mr. Lipscomb has been reading books to learn about the Inuktitut dialect spoken in the north Baffin. But since the books do not always agree, he is visiting Pond Inlet to learn at first hand. He is especially interested in variations in word structure in Inuktitut.

Exercise in sovereignty: the Canadian goverment and the 1953 Inuit relocation

Lowther, Keith
#128 - 1340 University Drive
Calgary, Alberta
T2N 3Y7

Location: Resolute Bay; Grise Fiord

June-July: Mr. Lowther wants to understand why people from Pond Inlet and Port Harrison were relocated to Resolute Bay and Grise Fiord in 1953. He will talk to people in the two communities to find out what conditions were like before, during and after the move.

Transfer of heat from Atlantic Ocean to sea and ice waters of Arctic Ocean

Moore, R.M.
Associate Professor
Department of Oceanography
Dalhousie University
Halifax, Nova Scotia
B3H 4J1

Location: Ward Hunt Island

April: The Arctic Ocean is "heated" by the influx of water from the warmer Atlantic. By measuring the concentrations of dissolved gases in ocean waters, Dr. Moore will be able to trace the flow of Atlantic waters into the Arctic basin.

Behaviour of ice in a sea ice environment

Nadreau, Jean-Paul
C-CORE
Memorial Univ. of Nfld.
St. John's, Newfoundland
A1B 3X5

Location: Resolute; Barrow Strait

March-April: Dr. Nadreau will be taking samples of ice from trenches dug in the sea ice. He is interested in learning more about the changes in ice under pressure.

Inuit knowledge of the ecology of the Hudson Bay eider and other waterfowl species

Nakashima, Douglas
5732 St. Urbain
Montreal, Quebec
H2T 2X3

Location: Sanikiluaq

August, October-November: Mr. Nakashima is continuing his research into the ecology and use of eider ducks and other waterfowl by the Inuit of Sanikiluaq. He wants to learn how the use of eider ducks has changed over the years, which species are the best for clothing, and how the clothing is made.

Spatial and temporal variation of vegetation on raised beaches, Devon Island.

Pearce, Cheryl M.
Department of Geography
University of Western Ontario
Social Sciences Centre
London, Ontario
N6A 5C2

Location: Truelove Lowland, Devon Island

June-August: Dr. Pearce and her associate are returning to Truelove Lowland to study the different kinds of plant communities that grow on raised beaches. They want to know why certain associations of plants occur only on certain beaches.

Investigation of buried glacier ice in Thompson Glacier moraine

Pollard, Wayne H.
Department of Geography
Memorial University
St. John's, Newfoundland
A1B 3X9

Location: Axel Heiberg Island

July: Dr. Pollard and Mark Hinton are examining the characteristics of glacier ice buried at the snout of Thompson Glacier in order to compare this ice with certain ground ice deposits located in the Mackenzie Delta and Yukon Coastal Plain areas.

Soft Economics: a handbook . . . for community economic development in northern Canada

Potvin, Joseph
Canadian Arctic Resources Cttee.
4th Fl., 111 Sparks Street
Ottawa, Ontario
K1P 5B5

Location: Yellowknife and 10 Inuit communities

June-July: Mr. Potvin will visit Cape Dorset, Pangnirtung, Broughton Island, Pond Inlet, Igloolik, Hall Beach, Pelly Bay, Spence Bay, Gjoa Haven, Cambridge and Yellowknife to discuss a new book and to gather information on small community projects and "micro-enterprises."

Canada/USSR Transarctic Skitrek

Rode, Andris
Canada - USSR Skitrek
50 Belmont Avenue
Ottawa, Ontario
K1S 0V1

Location: Cape Arktichevsky to Cape Columbia

March-June: As part of the Transpolar Skitrek, Dr. Rode and his colleagues conducted medical tests to study the effects of prolonged hard work under extreme environmental conditions. The skiers also took magnetic readings to investigate the theory that there is a second magnetic pole.

Reconnaissance for dinosaur remains in the Eclipse Trough, Bylot Island

Russell, Dale
Paleobiology Division
Nat. Museum of Natural Sciences
Box 3443, Station D
Ottawa, Ontario
K1P 6P4

Location: Pond Inlet and Bylot Island

June-July: Last summer, a bone from a duck-billed dinosaur was found on Bylot Island by Joshua Enookolook of Pond Inlet, while working as a field assistant for Dr. Elliott Burden. Dr. Russell, a world-renowned authority on dinosaurs, will visit the island this summer to see what he can find.

Limnology of Phalarope, Fish and Upper Beschel Lakes of Truelove Lowlands, Devon Island.

Scheibli, Frank
Department of Geography
Social Science Centre
University of Western Ontario
London, Ontario
N6A 5C2

Location: Truelove Lowland, Devon Island

June-August: Frank Scheibli and his coworker are sampling the waters of three large lakes to study temperature and chemical properties. They want to know how these factors affect the formation of sediments on the bottom of the lake.

Geology of Hare Fiord (Ellesmere) and Gibs Fiord (Axel Heiberg)

Schwerdtner, W. M.
Dept. of Geology
University of Toronto
170 college St.
Toronto, Ontario
M5S 1A1

Location: Ellesmere and Axel Heiberg Islands

June - August: Dr. Schwerdtner and several assistants are mapping the geology of these regions in order to investigate the origin of the rocks.

The concepts of health of young Inuit adolescents

Shea, Elaine
6060 University Avenue
Apartment 5
Halifax, Nova Scotia
B3H 1W5

Location: Igloolik

May-June: How do young Inuit define "good health"? What does being healthy mean to them? How does one become healthy? How does one learn about being healthy? Ms. Shea will interview young people in Igloolik to find out what they think about these questions.

North-south clinal variation in "Drosophila"

Singh, Rama
Department of Biology
McMaster University
1280 Main Street West
Hamilton, Ontario
L8S 4K1

Location: Repulse; Igloolik; Rankin; Eskimo Pt; Chesterfi

July-August: Dr. Singh and his researcher will be collecting specimens of fruit flies to see if they are different from those living in southern Canada. This will help them understand how these insects have evolved.

Interpretation of southern Baffin Island tundra vegetation from Landsat images

Skelly, William Chris
Department of Geography
Social Science Centre
University of Western Ontario
London, Ontario
N6A 5C2

Location: Iqaluit area and Auyuittiq National Park

August-September: Mr. Skelly will be studying the way different kinds of plants reflect light, to determine how they would look on a photograph taken from a Landsat satellite. This information will aid in the use of satellite photos in wildlife management and land-use planning.

Glacial history of Wolf Valley in west-central Ellesmere Island

Sloan, Valerie
Department of Geography
University of Alberta
Edmonton, Alberta
T6G 2H4

Location: Wolf Valley, west central Ellesmere Island

June-August: Valerie Sloan is mapping gravel and rock deposits to determine where the glaciers were at the end of the ice age. Since the weight of the glaciers caused the land to sink, she is also investigating how much the land has risen since the glaciers melted.

Paleoenvironment of Truelove Lowland (Devon Island) as determined from lake sediments

Smith, Rod
Department of Geography
Social Science Centre
University of Western Ontario
London, Ontario
N6A 5C2

Location: Truelove Lowland, Devon Island

June-August: Rod Smith and Louise Hollingsworth will be extracting columns of soil from the bottoms of large lakes to determine what the climate was like long ago. They will also collect soil samples from the areas surrounding the lake for comparative purposes.

Paleoenvironment of Truelove Lowland (Devon Island) as determined from peat bogs

Somr, Christopher
Department of Geography
Social Science Centre
University of Western Ontario
London, Ontario
N6A 5C2

Location: Truelove Lowland, Devon Island

June-August: Christopher Somr is extracting columns of soil from peat bogs . Through laboratory study of these samples, he will then be able to determine what the climate was like long ago.

Behavioural and population biology of walruses and seals

Stirling, Ian
Canadian Wildlife Service
5320 - 122 Street
Edmonton, Alberta
T6H 3S5

Location: Penny Strait, Radstock Bay

February-May: Dr. Stirling and nine colleagues are studying walrus on their wintering grounds in the central High Arctic. The researchers will also record underwater vocalizations of marine mammals and study the importance of polynyas (ice-free areas) to marine mammals in the winter.

The 1989 North Pole expedition

Summerson, Rupert M. V.
Suite 3A, 3rd Floor
405 - 411 Sussex Street
Sydney, New South Wales
Australia 2000

Location: Resolute, Ellef Ringnes Is, Pr. Gustaf Adolf Se

April-May: A team of adventurers from Australia and New Zealand are planning an expedition to the North Pole in 1989. This spring they made a trial run, pausing along the way to sample the snow and air for pollutants.

Muskox habitat use (Ellesmere); plant succession in the polar desert (Devon Island)

Svoboda, Joseph
Professor of Botany
Erindale Campus
University of Toronto
Mississauga, Ontario
L5L 1C6

Location: Ellesmere Island and Devon Island

March-August: Dr. Svoboda's research team will travel to Sverdrup Pass on Ellesmere Island to study the muskoxen. How do the grazing herds affect the vegetation? On Devon Island, the researchers will study the different types of plant communities that occur in association with various landforms.

Development planning in the Eastern Arctic: the role of communities . . . under Nunavut

Swiderski, Andy
P.O. Box 1049
Iqaluit, N.W.T.
XOA OHO

Location: Cape Dorset, Iqaluit, Pangnirtung

January-June: Mr. Swiderski is studying the way planning for economic development presently occurs in the Baffin region and how this might change under the Nunavut government. He is particularly interested in the role of communities in development planning.

High Arctic periglacial processes and related Quaternary history

Washburn, A.L.
Quaternary Research Centre
University of Washington
Seattle, Washington
USA 98195

Location: Resolute and Cornwallis Island

May-September: Dr. Washburn will be back again to continue his investigation into how the landscape has changed since the glaciers left 10,000 years ago. In particular, he is looking at how frost and permafrost have influenced the changes.

Bedrock weathering processes and products under arid arctic conditions - Ellesmere Island

Watts, Stephen
Geology Department
Sir Sandford Fleming College
Box 8000,
Lindsay, Ontario
K9V 5E6

Location: Sawtooth Range , Ellesmere Island

July-August: Dr. Watts wants to know how weather and glaciers cause bedrock to erode in the High arctic. As part of his study, he is collecting samples of rocks for further analysis.

Three-component magnetic survey: Soviet Canadian Trans Polar Expedition

Weber, Richard
P.O. Box 106
Chelsea, Quebec
J0X 1N0

Location: Soviet Siberia, northern tip of Ellesmere Island

March-June: As part of the Trans Polar Skitrek, Mr. Weber took magnetic readings across the Arctic Ocean to investigate the nature of the magnetic field in that area and to test the theory of a Soviet physicist who believes that there may be a second magnetic North Pole.

Productivity of marine mammal food chains, Barrow Strait

Welch, Harold
Research Scientist
Freshwater Institute
501 University Crescent
Winnipeg, Manitoba
R3T 2N6

Location: Resolute Bay and Area

July-September: Dr. Welch is studying the food chains in Barrow Strait. How much life can these waters produce and support? He will concentrate his investigations on Arctic cod, clams and a small animal known as "Parathemisto."

Inuit harvesting, money, and mixed economy: economic strategy and adaptation

Wenzel, George W.
Dept. of Geography
805 Sherbrooke Street W.
McGill University
Montreal, Quebec
H3A 2K6

Location: Clyde River

June-December: Dr. Wenzel will be interviewing hunters to collect harvest data and to learn about the costs of hunting. He also wants to find out if accurate harvest data can be obtained by talking to a few hunters or if it is necessary to talk to all.

The 1988 Inuit Broadcasting Corporation audience survey

Wilson, Thomas C.
Assistant Professor
Dept. of Educational Technology
Concordia University
Montreal, Quebec H3G 1M8

Location: Iqaluit, Igloolik, Cambridge Bay, Baker Lake

January-March: Dr. Wilson interviewed about 100 people in each of these communities to gather information for the Inuit Broadcasting Corporation about its audience. IBC wants to know how large its audience is, what they like and don't like about IBC programming, and what they'd like to see in future.

The hydrology of a high Arctic slope during spring melt

Woo, Ming-ko
Department of Geography
McMaster University
1280 Main Street West
Hamilton, Ontario
L8S 4K1

Location: McMaster River Basin, near Resolute

June-August: Dr. Woo wants to know what happens inside an Arctic hillside when the ground melts. Where does the melt water go? Does it refreeze? If so, where? How high up does the frost (frost-table) come? Where is the ground water (water-table)? These are questions he will investigate.

Biostratigraphy of the marine fauna from the Eureka Sound Formation

Zinsmeister, William J.
Dept. of Geosciences
Purdue University
West Lafayette, Indiana
470907 U. S. A.

Location: Ellesmere Island

June-July: Dr. Zinsmeister is returning to the area of Strathcona and Eureka Sounds to continue his study of sea animals that lived in the area thousands of years ago.

Fort Smith

Andrew Cowan and native-language programming of the CBC Northern Service

Currie, Noel Elizabeth
#3 - 533 McLeod Street
Ottawa, Ontario
K1R 5B3

Location: Yellowknife

May-June: Ms. Currie will be searching the CBC archives in Yellowknife and interviewing CBC staff for information on Andrew Cowan and his impact on the development of native-language broadcasting.

Structure of kinship and marriage in a small Dene community

Driedger, Linda C.
Box 3113
Athabasca, Alberta
T0G 0B0

Location: Fort Resolution

July-October: Ms. Driedger will be interviewing residents to see how kinship (family relations) and the social organization of the community are interwoven.

Physical volcanology and sedimentology of the Yellowknife Greenstone Belt

Falck, Hendrik
Department of Earth Sciences
Carleton University
Ottawa, Ontario
K1S 5B6

Location: Yellowknife area

June-September: Mr. Falck will be investigating the gold-bearing rock formations around Yellowknife.

Cancer among the Inuit

Freitag, Sharon
Department of Health
Government of the NWT
Yellowknife, NWT
X1A 2L9

Location: Yellowknife area

January-October: Ms. Freitag is completing a study begun in 1987 to see how and why the types of cancer that Inuit develop have changed since 1950.

Comparative biosystematics of two species of spruce beetles

Furniss, Malcolm
Division of Entomology
College of Agriculture
University of Idaho
Moscow, Idaho
83843 U.S.A.

Location: Highways 1,2,3,4,7 and Dempster

August: Dr. Furniss and three coworkers are studying two kinds of spruce beetles (Dedroctonus punctatus Lec. and D. micans Kug.), one of which occurs in Eurasia and the other in North America. They want to know if these insects belong to the same species and if their biology is the same.

An economic impact analysis of fly-in sport fishing lodges on Great Bear and Great Slave

Kelly, Robert
P.O. Box 1
Fenelon Falls, Ontario
K0M 1M0

Location: Great Bear Lake; Great Slave Lake

August-September: Robert Kelly and two fellow students will be interviewing owners and managers of 10-15 sport fishing lodges on Great Bear and Great Slave Lakes to see if there is a relationship between the type of ownership and impact on local and regional economies.

Postglacial history and modern genetic and morphologic diversity of jackpine

MacDonald, Glen M.
Department of Geography
McMaster Univeristy
1280 Main Street West
Hamilton, Ontario
L8S 4K1

Location: Norman Wells and Fort Simpson area

April-May: Dr. MacDonald and his coworkers are studying jack pines along the Mackenzie River between Norman Wells and Fort Simpson. Are there different kinds? How did they move into the Valley after the last ice age? They will sample pine needles, cones, seeds, growth rings and lake sediments.

Connotative meaning of work and personal values of native and non-native employees

McCarrey, Michael
School of Psychology
University of Ottawa
651 Cumberland
Ottawa, Ontario
K1N 6N5

Location: Fort Smith area, Yellowknife

May-September: Dr. McCarrey and Dorin Whelly are interested in people's attitudes towards their work. What do people expect from their jobs? What conditions are necessary to create these satisfactions? Do native and non-native employees have different needs and expectations?

Soft Economics: a handbook . . . for community economic development in northern Canada

Potvin, Joseph
Canadian Arctic Resources Cttee.
4th Fl., 111 Sparks Street
Ottawa, Ontario
K1P 5B5

Location: Yellowknife and 10 Inuit communities

June-July: Mr. Potvin will visit Cape Dorset, Pangnirtung, Broughton Island, Pond Inlet, Igloolik, Hall Beach, Pelly Bay, Spence Bay, Gjoa Haven, Cambridge and Yellowknife to discuss a new book and to gather information on small community projects and "micro-enterprises."

Study of winter ice thickness in Mackenzie Delta and Hay River, N.W.T.

Sherstone, David
Scientific Services
INAC
P.O. Box 1500
Yellowknife, N.W.T.
X1A 2R3

Location: Mackenzie Delta and Hay River

January-June, August-September: How fast does ice grow and decay in major river channels? Mr. Sherstone is assembling long-term records of the speed at which ice grows, the maximum thickness it attains, the date at which it is the thickest, and the rate at which it thins before break-up.

Biomass estimates for the North American boreal forest

Simpson, Lloyd G.
Specialist, Environmental Studies
University of California
Santa Barbara, California
USA 93106

Location: highways in the Inuvik and Ft. Smith regions

June-September: Dr. Simpson and his crew will be travelling along the N.W.T. highway system measuring trees and shrubs in the forest. This information will be used to estimate the amount of living material in the boreal forest.

Late Pleistocene Lake Mackenzie, N.W.T.

Smith, Derald G.
Department of Geography
University of Calgary
2500 University Drive N.W.
Calgary, Alberta
T2N 1N4

Location: Mackenzie River, Ft. Simpson to Good Hope

July-August: Dr. Smith and his two students are trying to find out the extent of a glacial lake that once stretched from the Redstone River to Ft. Good Hope. They are also collecting samples of ancient plant material from river cutbanks to determine what kinds of plants used to grow on the lake shore.

The genecology of seedling drought resistance in jack pine

Wright, Robert A.
Department of Forest Science
University of Alberta
Edmonton, Alberta
T6G 2H1

Location: Fort Smith; Yellowknife; Fort Simpson areas

July: Robert Wright wants to know if jack pine seedlings from the subarctic can survive longer without rain than seedlings from other areas.

Inuvik

Traditional music and games of the Athapascan peoples

Beaudry, Nicole
6285 de St. Valier, #7
Montreal, Quebec
H2S 2P6

Location: Fort Franklin, Fort Norman

February-April: Nicole Beaudry came from the Departement de Musique at the Universite de Quebec to record information about the traditional music, dancing and games of the Dene people .

Ecology and population genetics of freshwater invertebrates of the Arctic

Boileau, Marc G.
Dept. of Biological Sciences
University of Windsor
Windsor, Ontario
N9B 3P4

Location: Inuvik, Eskimo Point, Rankin Inlet

August-September: Mr. Boileau is studying tiny, hard-bodied animals (crustacean zooplankton) that live in freshwater in the Arctic. He wants to clarify the naming of different species, improve records of their distribution and study the routes by which the animals have dispersed since the last ice age.

The influence of sedimentation on permafrost distribution, Richards Island, N.W.T.

Dyke, Larry
Dept. of Geological Sciences
Queen's University
Kingston, Ontario
K7L 3N6

Location: Richards Islands

July: Dr. Dyke will use a water jet to sink temperatures into a 2 km. long spit at the north end of Richards Islands. He hopes to determine if the accumulation of sediments has influenced the distribution of permafrost.

Geomorphology and groundwater hydrology of the Lower Devonian Bear Rock formation

Ford, Derek C.
Department of Geography
McMaster University
1280 Main Street West
Hamilton, Ontario
L8S 4K1

Location: near Fort Norman

May-August: Jim Hamilton, a student of Dr. Ford's, and his field assistant will hike through the Dodo Canyon, Carcajou Canyon, Grotto Creek, Rouge Mountain, Bear Rock, Mackay Range, and Discovery Ridge areas to study the way water from snow and rain travels through the soil and rocks.

Comparative biosystematics of two species of spruce beetles

Furniss, Malcolm
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College of Agriculture
University of Idaho
Moscow, Idaho
83843 U.S.A.

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Stratigraphy of late Quaternary coastal marine sediments, Horton to Ellice Rivers, N.W.T.

Kerr, Daniel E.
Department of Geology
University of Alberta
Edmonton, Alberta
T6G 2E2

Location: Tuktoyaktuk, Paulatuk, Bathurst Inlet

June-August: Daniel Kerr is trying to understand what happened along the Arctic coast towards the end of the last ice age, as the glaciers were retreating. He will also try to estimate how much the land has risen since the weight of the glaciers was removed.

Reclamation of simulated transport corridors in subarctic forests

Kershaw, Peter G.
Department of Geography
University of Alberta
Edmonton, Alberta
T6G 2H4

Location: Fort Norman

August-November: Over the past several years, Dr. Kershaw has been trying to find out the best way to make plants grow back after they have been removed to build a pipeline. He is also looking at ways to keep permafrost areas from melting when the insulating plant cover is removed.

Assessment of toxaphene intake by Mackenzie River community residents, N.W.T.

Kuhnlein, Harriet
Dept. of Dietetics and
Human Nutrition
McGill University
Montreal, Quebec

Location: Fort Good Hope; Colville Lake

June-December: As a follow-up to a study on contaminants in loche and whitefish, Health and Welfare Canada and other agencies are sponsoring this study to find out what amounts of contaminants people are eating. Renewable Resource officers will collect samples of wild foods for laboratory analysis.

Rocks and fossils in the White Mountains and Campbell Hills, N.W.T.

Leigh, Kenneth
Department of Geology
Biological and Geological Bldg.
University of Western Ontario
London, Ontario N6A 5B7

Location: White Mountains; Campbell Hills

June-August: Kenneth Leigh will be travelling through these areas to collect rocks and fossils.

Postglacial history and modern genetic and morphologic diversity of jackpine

MacDonald, Glen M.
Department of Geography
McMaster Univeristy
1280 Main Street West
Hamilton, Ontario
L8S 4K1

Location: Norman Wells and Fort Simpson area

April-May: Dr. MacDonald and his coworkers are studying jack pines along the Mackenzie River between Norman Wells and Fort Simpson. Are there different kinds? How did they move into the Valley after the last ice age? They will sample pine needles, cones, seeds, growth rings and lake sediments.

Processes in permafrost

Mackay, J. Ross
Department of Geography
University of British Columbia
Vancouver, B.C. V6T 1M5

Location: Tuktoyaktuk and area

June-August: Dr. Mackay is studying permafrost -- its origins, the characteristics of permanent ice, and the processes that occur in the permafrost zone, such as the development of pingoes.

Sedimentological facies analysis within the . . . central-northern Richardson Mountains

Mattner, Jorg
Lehrstuhl Fur Alg. & Hist. Geol.
Geol. Inst. der TU Clausthal,
Leibnitzstrasse 10
3392 Clausthal, West Germany

Location: Inuvik to Summit Lake (McDougall Pass)

July-October: Mr. Mattner is studying the history of rocks that were deposited about 150,000,000 years ago (Upper Jurassic and Lower Cretaceous) and are now exposed to view in the Richardson Mountains.

Beaufort Sea ice motion program - mesoscale flow features study

Melling, Humfrey
Institute of Ocean Sciences
P.O. Box 6000
9860 West Saanich Road
Sidney, B.C. V8L 4B2

Location: Tuktoyaktuk, Beaufort Sea

August-September: Mr. Melling is studying the movements of ice in the southern Beaufort Sea. He hopes to understand the relationship between sea-ice movements and such factors as the "landscape" of the seafloor. This research may improve our ability to predict the movements of pack-ice.

Beaufort sea ice motion program - wintertime hydrography

Melling, Humfrey
Institute of Ocean Sciences
P.O.Box 6000
9860 West Saanich Road
Sidney, B.C. V8L 4B2

Location: Tuktoyaktuk, Beaufort Sea

March: Mr. Melling and his coworkers are investigating the circulation of sea salts (nutrients) in the Beaufort Sea. They are trying to understand the role of wintertime freezing in this process.

Ediacaran fossils of the Mackenzie Mountains, N.W.T.

Narbonne, Guy M.
Dept. of Geological Sciences
Queen's University
Kingston, Ontario
K7L 3N6

Location: June Lake, Sekwi Brook, Mackenzie Mountair

May-June: Dr. Narbonne collected fossils in the Mackenzie Mountains to learn more about the kinds of life forms that occurred in the area long ago.

Testing the WCM surface wind prediction model at high latitudes.

Pickford, Stewart G.
Canadian Forestry Service
5320-122 Street
Edmonton, Alberta
T6H 3S5

Location: Norman Wells area

June - August: Dr. Pickford has developed a computer model that predicts how forest fires will spread in relation to the weather conditions in southern Canada. He wants to collect weather information from the central Mackenzie Valley area, so he can see if his model will be useful in the North.

Reconstruction of post-glacial vegetation and climate in the Inuvik and Tuktoyaktuk area

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Ritchie, J.C.
University of Toronto
Scarborough Campus
1265 Military Trail
West Hill, Ontario
M1C 1A4

Location: Tuktoyaktuk; Tuktoyaktuk Peninsula; Inuvik a

Dr. Ritchie is studying live plants and the remains of plants at the bottom of lakes to see how plants and weather have changed since the glaciers left the Inuvik and Tuktoyaktuk area 10,000 years ago.

Study of winter ice thickness in Mackenzie Delta and Hay River, N.W.T.

Sherstone, David
Scientific Services
INAC
P.O. Box 1500
Yellowknife, N.W.T.
X1A 2R3

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Geological survey of map sheets 87A (western portion) and 87B (eastern third)

St. - Onge, Denis A.
Terrain Sciences Division
Geological Survey of Canada
601 Booth Street
Ottawa, Ontario
K1A 0E8

Location: Coppermine area

June-August: Mr. St.-Onge will be visiting the area between Rae River, Dolphin Union Strait and Cape Krusenstern to collect rocks, see how old they are and learn how they were formed.

Re-evaluation of disturbance experiments in the Lower Mackenzie Region, N.W.T.

Wein, Ross
Boreal Inst. for Northern Studies
CW 401 Biological Science Bldg.
University of Alberta
Edmonton, Alberta
T6G 2E9

Location: Inuvik area

August: In the early 1970's, several test plots were established to see what happens when the plants and soil are disturbed or removed by fire, oil spills, and vehicles. Dr. Wein and two students will be re-visiting these sites to document how the plants have recovered since that time.

Quaternary geology and periglacial geomorphology of Banks Island

Worsley. Peter
Department of Geography
University of Nottingham
Nottingham, England
NG7 2RD

Location: Fish Lake, Banks Island

June-August: Dr. Worsley and his research associates will continue their studies of how the rocks, landscape, and permafrost of Banks Island have changed in the last million years. They are interested in using this information to try to determine what conditions where like in England long ago.

Keewatin

Ecology and population genetics of freshwater invertebrates of the Arctic

Boileau, Marc G.
Dept. of Biological Sciences
University of Windsor
Windsor, Ontario
N9B 3P4

Location: Inuvik, Eskimo Point, Rankin Inlet

August-September: Mr. Boileau is studying tiny, hard-bodied animals (crustacean zooplankton) that live in freshwater in the Arctic. He wants to clarify the naming of different species, improve records of their distribution and study the routes by which the animals have dispersed since the last ice age.

Systematic studies of the lichen genus "Ionaspis" in North America

Brodo, Irwin
Nat. Museum of Natural Sciences
Botany Division
Ottawa, Ontario
K1A 0M8

Location: six locations across the N. W. T.

July-August: Dr. Brodo and two students (Mr. Lutzoni and Mr. Proulx) will be collecting and identifying lichens near Iqaluit, Resolute, Cambridge, Coppermine, Holman and Yellowknife. If the species are not uniformly distributed, the researchers will try to understand why.

Flora of central coastal Keewatin, N.W.T.

Cameron, Duncan
Department of Biology
York University, 470 Keele Street
North York, Ontario
M3J 1P3

Location: Eskimo Point and area

May-August: Dr. Cameron will study the plants in the area of Eskimo Point.

Geochronology and petrogenesis of the Archean Kaminak Lake terrane

Cavell, Patricia A.
Department of Geology
1-26 Earth Sciences Building
University of Alberta
Edmonton, Alberta
T6G 2E3

Location: Kaminak Lake region

July - August: Dr. Cavell and a small team of researchers are studying the igneous (heat-formed) rocks around Kaminak Lake. By determining the age and chemical composition of the rocks, they hope to be able to tell how the rocks originated.

Job opportunities and employment histories in Coral Harbour, N.W.T.

Egan, Chris
1834 Attawandaron Road
London, Ontario
N6G 3N1

Location: Coral Harbour

May-September: Ms. Egan will be interviewing some residents of Coral Harbour to learn about the history of employment opportunities in that community. She has a special interest in women's contribution to the work force.

The marginal rocks of the Muskox Intrusion

Francis, Don
Dept. of Geological Sciences
McGill University
3450 University Street
Montreal, Quebec H3A 2A7

Location: Speers L. to Muskox L., Coppermine River

June-August: Dr. Francis is a geologist who is interested in the origin of the "gabbro-norite margin of the Muskox intrusion." He will be mapping and collecting rock samples as he journeys across the central N.W.T.

ATV accidents in Baker Lake and Eskimo Point

Froese, Norbert
Community & Northern Medicine
University of Manitoba
Churchill, Manitoba
R0B 0E0

Location: Baker Lake; Eskimo Point

May-September: Dr. Froese will be examining records of accidents in which ATV's or snowmobiles were involved to see if there is a difference between the two communities. He is interested in knowing whether the bylaws for ATV's passed in 1979 in Baker Lake have helped to reduce injuries.

Review of demography and its implications for social and economic policy

Irwin, Colin
Dept. of Sociology and Anthropology
Dalhousie University
Halifax, Nova Scotia
B3H 1T2

Location: Chesterfield Inlet and Rankin Inlet

January-September: Dr. Irwin is living in Chesterfield Inlet to learn about the way Inuit people live and to find out what they want for the future -- How big should the community become? What kinds of jobs do they wish for? How should hunting/ fishing be supported? What do people want for their children?

The postglacial history of the northern treeline in the Kazan River region

MacDonald, Glen M.
Department of Geography
McMaster University
1280 Main Street West
Hamilton, Ontario
L8S 4K1

Location: Kazan River region

July-August: As part of "Operation Raleigh," a group of young people from around the world will canoe the Kazan River to Baker Lake. Along the way, they will take samples of lake sediments and peat and examine tree-ring cores, to obtain information about the history of the treeline in this area.

North-south clinal variation in "Drosophila"

Singh, Rama
Department of Biology
McMaster University
1280 Main Street West
Hamilton, Ontario
L8S 4K1

Location: five eastern Arctic communities

July-August: Dr. Singh and his researchers will be collecting specimens of fruit flies to see if they are different from those living in southern Canada. This will help them understand how these insects have evolved. They will visit Repulse, Igloolik, Rankin, Eskimo Point, and Chestefield Inlet.

Productivity of marine mammal food chains, Hudson Bay

Welch, Harold
Research Scientist
Freshwater Institute
501 University Crescent
Winnipeg, Manitoba
R3T 2N6

Location: Saqvaqjuac, near Chesterfield Inlet area

February-June: Dr. Welch wants to learn more about the food supply that is available to marine mammals in the Arctic Ocean . To do this, he will study tiny plants and animals (algae and amphipods) from the ocean and also examine the stomach contents of hunter-killed seals to see what they eat.

The 1988 Inuit Broadcasting Corporation audience survey

Wilson, Thomas C.
Assistant Professor
Dept. of Educational Technology
Concordia University
Montreal, Quebec H3G 1M8

Location: Iqaluit, Igloolik, Cambridge Bay, Baker Lake

January-March: Dr. Wilson interviewed about 100 people in each of these communities to gather information for the Inuit Broadcasting Corporation about its audience. IBC wants to know how large its audience is, what they like and don't like about IBC programming, and what they'd like to see in the future.

Kitikmeot

Systematic studies of the lichen genus "Ionaspis" in North America

Brodo, Irwin
Nat. Museum of Natural Sciences
Botany Division
Ottawa, Ontario
K1A 0M8

Location: six locations across the N. W. T.

July-August: Dr. Brodo and two students (Mr. Lutzoni and Mr. Proulx) will be collecting and identifying lichens near Iqaluit, Resolute, Cambridge, Coppermine, Holman and Yellowknife. If the species are not uniformly distributed, the researchers will try to understand why.

Adolescent development in the community of Holman Island.

Condon, Richard
Arctic Studies,
Hubbard Hall, Bowdoin College
Brunswick, Maine

Location: Holman Island

January-December: Dr. Condon, the author of a recent book on Inuit youth, is living in Holman Island to continue his study of adolescence in the community. He is particularly interested in the effect of recent social changes on the attitudes and actions of young Inuit.

The marginal rocks of the Muskox Intrusion

Francis, Don
Dept. of Geological Sciences
McGill University
3450 University Street
Montreal, Quebec H3A 2A7

Location: Speers L. to Muskox L., Coppermine River

June-August: Dr. Francis is a geologist who is interested in the origin of the "gabbro-norite margin of the Muskox intrusion." He will be mapping and collecting rock samples as he journeys across the central N.W.T.

Man-land relationships and navigational skills, Pelly Bay, N.W.T.

Goehring, Brian
Geography Department
#217 - 1984 West Mall
University of British Columbia
Vancouver, B.C. V6T 1W5

Location: Pelly Bay

July-August: Mr. Goehring wants to know how Inuit travel on the land without using compasses, maps and other modern navigational aids.

Stratigraphy of late Quaternary coastal marine sediments, Horton to Ellice Rivers, N.W.T.

Kerr, Daniel E.
Department of Geology
University of Alberta
Edmonton, Alberta
T6G 2E2

Location: Tuktoyaktuk, Paulatuk, Bathurst Inlet

June-August: Daniel Kerr is trying to understand what happened along the Arctic coast towards the end of the last ice age, as the glaciers were retreating. He will also try to estimate how much the land has risen since the weight of the glaciers was removed.

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Canadian Arctic Resources Cttee.
4th Fl., 111 Sparks Street
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Location: Yellowknife and 10 Inuit communities

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Geological reconnaissance in the Glenelg Bay region, Victoria Island

Swett, Keene
Department of Geology
Trowbridge Hall
Univeristy of Iowa
Iowa City, Iowa
USA 52242

Location: Glenelg Bay, Victoria Island

June-July: Dr. Swett is being sponsored by the National Geographic Society to study the rocks in Glenelg Bay.

Insects of the central Arctic (Holman Island, Coppermine)

Troubridge, Jim
Dept. of Environmental Biology
University of Guelph
Guelph, Ontario
N1G 2W1

Location: Holman Island, Coppermine

June-July: Jim Troubridge will be collecting insects as part of his study of insects in the central Arctic

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- *Physical Sciences: other specialties*
- *Life and Environmental Sciences*
- *Human and Health Sciences*

- Physical Sciences: paleogeography and geology

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Basinger: Evolution of high latitude floras, 4
Beaudet: Late Quaternary history of Lake Hazen, Ellesmere Island, 4
Bednarski: Quaternary history of Nansen Sound, 5
Bell: Quaternary geology and geomorphology of the Fosheim Peninsula, Ellesmere, 5
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